

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 09327447 A

(43) Date of publication of application: 22.12.1997

(51) Int. Cl. A61B 5/07

A61B 10/00, A61B 17/36, A61N 5/06

(21) Application number: 08145986

(22) Date of filing: 07.06.1996

(71) Applicant: OLYMPUS OPTICAL CO LTD

(72) Inventor: TAKIZAWA HIRONOBU

HIRATA YASUO

ADACHI HIDEYUKI

OZAWA TSUYOSHI

(54) MEDICAL CAPSULE

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a medical capsule to force least inconvenience to a patient for power supply and capable of using for a long time in an organism.

SOLUTION: A spherical inner capsule 3 embedded with an observation device 11 and a lighting device 12 is rotatably supported by a pin 6 protruded from a beam 4 and a motor rotation shaft 8, and a motor shaft 10 of an electromagnetic motor 9 mounted on the top part of the beam 4 is fixed to a spherical outer shell capsule 2. The observation direction is made possible to be arbitrarily set by rotations of electromagnetic motors 7 and 9, further, the stator side of an electromagnetic dynamo 13 is fixed in the inner capsule 3, an eccentric weight 17 is fixed to a rotation shaft 16 rotatably attached with an electromagnetic coil, the electric energy generated by acting the rotation force of the oc-

centric weight 17 on the rotation shaft 16 is charged in a battery 15 to make the capsule capable of being embedded in an organism for observation even without supplying power for a long time.

COPYRIGHT: (C)1997,JPO

